

110.5 - Fertilizers (powder form)

These SRMs are intended for use in the fertilizer industry as working standards.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	120c	193	194a	200b	694	695
Description	Phosphate Rock (Florida)	Potassium Nitrate	Ammonium Dihydrogen Phosphate	Potassium Dihydrogen Phosphate, (KH ₂ PO ₄)	Phosphate Rock, Western	Trace Elements in Multi-Nutrient Fertilizer
Unit Size	(90 g)	(90 g)	(90 g)	(90 g)	(90 g)	(70 g)
(Concentrations are in mass fractions, in mg/kg, unless noted by an asterisk for %)						
Aluminum (Al)						0.61*
Arsenic (As)						200
Boron (B)						0.111*
Cadmium (Cd)						16.9
Cadmium oxide (CdO)					0.015*	
Calcium (Ca)						2.26*
Calcium oxide (CaO)	48.02*				43.6*	
Chlorine (Cl)						(4.6*)
Chromium (Cr)						244
Chromium oxide (Cr ₂ O ₃)					(0.10*)	
Cobalt (Co)						65.3
Copper (Cu)						1225
Fluorine (F)					3.2*	
Iron (Fe)						3.99*
Iron oxide (Fe ₂ O ₃)					0.79*	
(Concentrations are in mass fractions, in mg/kg, unless noted by an asterisk for %)						
Lead (Pb)						273
Magnesium (Mg)						1.79*
Magnesium oxide (MgO)					0.33*	
Manganese (Mn)						0.305*
Manganese oxide (MnO)					0.0116*	
Mercury (Hg)						1.955
Molybdenum (Mo)						20.0

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Nickel (Ni)				135
Nitrogen (N)	13.85*	12.130*	1.8*	13.9*
Phosphorus (P)		26.93*	22.769	7.2*
Phosphorus pentoxide (P₂O₅)	33.34*		30.2*	
Potassium (K)	38.66*	28.735		11.65*
Potassium oxide (K₂O)	0.147*		0.51*	
Selenium (Se)				2.1
Silicon dioxide (SiO₂)			11.2*	
Sodium (Na)				0.405*

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Sodium oxide (Na₂O)	0.86*	
Titanium (Ti)		(310)
Titanium dioxide (TiO₂)	(0.11*)	
Uranium (U)	0.01414*	
Vanadium (V)		122
Vanadium pentoxide (V₂O₅)	0.31*	
Zinc (Zn)		0.325*

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